

Applicant : Vincent P. Stanton, Jr.  
Serial No. : 09/658,659  
Filed : September 8, 2000  
Page : 2

Attorney's Docket No.: 11926-015001 / 0017.CIP3

3150 2756A>G D919G  
3207 2813G>T S938I  
3209 2815G>C G939R  
5444 5050C>A 3'  
5551 5157G>A 3'  
5573 5179C>T 3'  
5659 5265T>C 3'  
5678 5284T>C 3'  
5874 5480C>T 3'  
5934 5540A>G 3'

D78586 D78586 114010 GEN-BR CAD PROTEIN  
3434 3408C>T Silent  
4313 4287T>C Silent  
4799 4773A>G Silent  
5255 5229C>T Silent  
5455 5429G>A R1810Q  
5507 5481T>C Silent  
5810 5784C>T Silent  
6128 6102C>T Silent  
6626 6600C>T Silent  
6686 6660C>T Silent

U09178 U09178 274270 GEN-HA  
Dihydropyrimidine Dehydrogenase

166 85T>C C29R  
577 496A>G M166V  
638 557A>G Y186C  
1708 1627A>G I543V  
3432 3351T>C 3'  
3682 3601C>T 3'  
3730 3649G>A 3'  
3925 3844A>G 3'  
3937 3856T>C 3'

U19720 U19720 600424 GEN-II Folate  
Transporter (SLC19A1)  
175 80G>A R27H  
341 246C>G Silent  
791 696C>T Silent  
1067 972G>A Silent  
1337 1242C>A Silent  
1997 1902T>C 3'  
2100 2005^2006insG 3'  
2582 2487T>G 3'  
2617 2522C>T 3'  
2652 2557T>C 3'

Applicant : Vincent P. Stanton, Jr.  
Serial No. : 09/658,659  
Filed : September 8, 2000  
Page : 3

Attorney's Docket No.: 11926-015001 / 0017.CIP3

U92868 U92868 600424 GEN-LUK Homo sapiens reduced  
folate carrier (RFC1) gene, exons 1a, 1c and 1b

431	431A>G	Intron
441	441A>G	Intron
498	498C>T	Intron
579	579G>C	Intron
599	599G>C	Intron

X02308 X02308 188350 GEN-KL Thymidylate  
synthetase

1066	961T>C	3'
1136	1031A>G	3'
1497	1392T>A	3'

D00517 D00517 188350 GEN-LUC Thymidylate  
synthase, promoter

276	276C>T	Intron
321	321T>C	Intron
452	452G>A	Intron
457	457^insC	Intron
491	491C>A	Intron
533	533T>C	Intron
624	624A>C	Intron
639	639A>G	Intron
655	655T>C	Intron

D00596 D00596 188350 GEN-LUD Homo sapiens  
gene for thymidylate synthase, exons 1, 2, 3, 4, 5, 6, 7,  
complete cds

701	701A>C	Intron
716	716A>G	Intron
732	732T>C	Intron
1293	1293A>G	Intron
1322	1322C>G	Intron
1379	1379T>C	Intron
1590	1590C>T	Intron
1688	1688C>G	Intron
2401	2401A>G	Intron
2429	2429G>A	Intron
2488	2488C>T	Intron
2594	2594G>T	Intron
2618	2618G>A	Intron
3083	3083G>A	Intron
3125	3125G>A	Intron
3212	3212C>T	Intron
3619	3619T>A	Intron
3635	3635G>A	Intron
4256	4256G>A	Intron

Applicant : Vincent P. Stanton, Jr.  
Serial No. : 09/658,659  
Filed : September 8, 2000  
Page : 4

Attorney's Docket No.: 11926-015001 / 0017.CIP3

4898 4898A>G Intron  
5006 5006C>T Intron  
5062 5062G>A Intron  
5167 5167G>A Intron  
11069 11069A>G Intron  
11238 11238C>T Intron  
11293 11293T>G Intron  
11422 11422T>C Intron  
11686 11686C>T Intron  
12598 12598T>C Intron  
13171 13171T>C Intron  
13298 13298G>A Intron  
13645 13645T>C Intron  
13751 13751C>A Intron  
13782 13782T>C Intron  
13806 13806T>C Intron  
13813 13813T>C Intron  
14479 14479A>G Intron  
14546 14546^insT Intron  
14585 14585C>T Intron  
14729 14729G>A Intron  
14787 14787C>T Intron  
14795 14795G>A Intron  
15041 15041T>C Intron  
15343 15343G>A Intron  
15449 15449G>A Intron  
15502 15502G>A Intron  
15545 15545C>T Intron  
15589 15589A>G Intron  
15769 15769C>T 3'  
15839 15839A>G 3'  
16148 16148G>A 3'  
16198 16198T>G 3'  
16202 16202G>T Intron

X59618 X59618 180390 GEN-M3 Ribonucleotide  
reductase M2 polypeptide  
128 (-67)G>A 5'  
189 (-6)T>G 5'  
524 330C>G Silent  
1399 1205T>A 3'  
1464 1270G>A 3'  
1636 1442C>T 3'  
1738 1544C>T 3'  
2259 2065T>C 3'

Applicant : Vincent P. Stanton, Jr.  
Serial No. : 09/658,659  
Filed : September 8, 2000  
Page : 5

Attorney's Docket No.: 11926-015001 / 0017.CIP3

S72487	S72487	131222	GEN-3LD	Thymidine
phosphorylase, partial				
183		19G>A	D7N	
483		319C>T	3'	
601		437G>C	3'	
1299		1135G>A	3'	
M58602	M58602	131222	GEN-LUB	Thymidine
phosphorylase, promoter and genomic				
124		124C>T	3'	
439		439G>A	3'	
1044		1044^insCT	3'	
1331		1331G>A	3'	
1977		1977G>A	Intron	
2149		2149G>A	Intron	
2467		2467A>G	Intron	
2634		2634C>G	Intron	
2975		2975G>A	Intron	
3116		3116G>T	Intron	
3255		3255A>C	Intron	
3344		3344T>C	Intron	
4051		4051C>A	Intron	
4782		4782G>A	Intron	
5022		5022T>C	Intron	
5266		5266G>A	Intron	
5285		5285C>G	Intron	
5438		5438T>A	Intron	
5482		5482C>T	Intron	
5629		5629G>A	Intron	
5648		5648C>T	Intron	
5731		5731G>A	Intron	
M98045	M98045	136510	GEN-4C3	Homo sapiens
folylpolyglutamate synthetase mRNA, complete cds				
802		732C>T	Silent	
1747		1677G>T	3'	
1900		1830T>C	3'	
U24253	U24253	136510	GEN-LUE	Human
folylpolyglutamate synthetase (FPGS) gene, exons 5-11, and				
partial cds				
1424		1424C>A	Intron	
1649		1649G>A	Intron	
2554		2554A>G	Intron	
U24252	U24252	136510	GEN-LUF	
Folylpolyglutamate synthetase, promoter and exons 1-4				
263		263A>G	Intron	
266		266G>T	Intron	

Applicant : Vincent P. Stanton, Jr.  
Serial No. : 09/658,659  
Filed : September 8, 2000  
Page : 6

Attorney's Docket No.: 11926-015001 / 0017.CIP3

527	527C>G	Intron
1037	1037A>G	5'
1139	1139G>A	Intron
1217	1217C>T	Intron
1647	1647C>T	Intron
1955	1955G>A	Intron
2017	2017G>A	Intron
2037	2037G>A	Intron
2189	2189A>G	Intron
2282	2282C>T	Intron
2309	2309A>G	Intron

DA  
U09806 U09806 236250 GEN-4FZ Human  
methylenetetrahydrofolate reductase mRNA, partial cds (SEQ ID  
NO:1)

120	120T>C	Silent
464	464T>G	M155R
519	519C>T	Silent
668	668C>T	A223V
1059	1059T>C	Silent
1289	1289C>A	3'
1308	1308T>C	3'
1784	1784G>A	3'

AF061655 AF061655 123920 GEN-LUJ Cytidine  
deaminase, promoter

575	575T>C	Intron
648	648T>C	Intron
771	771G>C	Intron
883	883G>A	Intron
941	941^insC	5'
1051	1051A>C	K27Q

In the Claims:

Please amend claims 182-201 as follows:

182. (Amended) An isolated nucleic acid probe comprising at least 15 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:1 (methylenetetrahydrofolate reductase), the probe comprising at least one of: